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1 On achieving throughput in an input-queued switch

Saad Mneimneh, Kai-Yeung Siu

 October 2003 **IEEE/ACM Transactions on Networking (TON)**, Volume 11 Issue 5

 Full text available: pdf (639.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We establish some lower bounds on the speedup required to achieve throughput for some classes of switching algorithms in a input-queued switch with virtual output queues (VOQs). We use a weak notion of throughput, which will only strengthen the results, since an algorithm that cannot achieve weak throughput cannot achieve stronger notions of throughput. We focus on priority switching algorithms, i.e., algorithms that assign priorities to VOQs and forward packets of high priority first. We show a ...

Keywords: lower bounds, priority switching algorithms, speedup, throughput

2 Packet network simulation: speedup and accuracy versus timing granularity

Jong Suk Ahn, Peter B. Danzig

 October 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 5

 Full text available: pdf (1.54 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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<u>L38</u>	L31 and integrated near switch	0	<u>L38</u>
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<u>L35</u>	L32 and priority and switching	1	<u>L35</u>
<u>L34</u>	L32 and prioritizing near switching	0	<u>L34</u>
<u>L33</u>	L32 and priority adj switching	0	<u>L33</u>
<u>L32</u>	L31 and integrated adj network adj switch	2	<u>L32</u>

<u>L31</u>	user-selected adj attributes	37	<u>L31</u>
<u>L30</u>	user-select near attributes	0	<u>L30</u>
<u>L29</u>	prioritize adj switching near PDU	0	<u>L29</u>
<u>L28</u>	prioritize adj switching near data adj frame	0	<u>L28</u>
<u>L27</u>	L26 and integrated near switch	1	<u>L27</u>
<u>L26</u>	Bahadir and Erimli.in.	40	<u>L26</u>
<u>L25</u>	L24 and priority adj switching	0	<u>L25</u>
<u>L24</u>	integrated adj network switch	38	<u>L24</u>
<u>L23</u>	integrated adj network adj switch and (prioritizing adj switching) and user adj selected	0	<u>L23</u>
<u>L22</u>	integrated adj network adj switch and (prioritizing adj switching) and (user-selected)	0	<u>L22</u>
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
<u>L21</u>	L1 and switching near priority	0	<u>L21</u>
<u>L20</u>	l1 and switch near priority	0	<u>L20</u>
<u>L19</u>	L17 and priority adj switching	0	<u>L19</u>
<u>L18</u>	L17 and prioritizing adj switching	0	<u>L18</u>
<u>L17</u>	user near selected and integrated near switch	52	<u>L17</u>
<u>L16</u>	L1 and priority adj switching	0	<u>L16</u>
<u>L15</u>	L1 and priority near switch	0	<u>L15</u>
<u>L14</u>	L1 and prioritizing near switching	0	<u>L14</u>
<u>L13</u>	L1 and subscriber near selected	0	<u>L13</u>
<u>L12</u>	L1 and subscriber near selects	0	<u>L12</u>
<u>L11</u>	L1 and user near select	0	<u>L11</u>
<u>L10</u>	L1 and user near selected	2	<u>L10</u>
<u>L9</u>	L3 and priority and switching	1	<u>L9</u>
<u>L8</u>	prioritizing near switching near data adj frame	0	<u>L8</u>
<u>L7</u>	L6 and user-selected	0	<u>L7</u>
<u>L6</u>	prioritizing adj switching	3	<u>L6</u>
<u>L5</u>	L3 and priority adj switching	0	<u>L5</u>
<u>L4</u>	L3 and prioritizing	0	<u>L4</u>
<u>L3</u>	L2 and data adj frame	2	<u>L3</u>
<u>L2</u>	L1 and user-selected	2	<u>L2</u>
<u>L1</u>	integrated adj network adj switch	34	<u>L1</u>

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